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Application Submit

IDS Flag Clearance for Application 09834736

IDS Information

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2005-01-26	56	YE	2006-08-07 09:42:24.0	CNguyen1
M844	2006-03-30	52	Y	2006-08-07 09:42:20.0	CNguyen1
M844	2006-03-27	51	Y 🗹	2006-08-07 09:42:15.0	CNguyen1
M844	2005-09-26	43	YE	2005-12-22 15:20:43.0	EBurns
M844	2002-10-01	15	Y	2002-12-13 14:51:46.0	dsmith5
Üpdate					

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L1: Entry 1 of 1

File: DWPI

Aug 1, 2000

DERWENT-ACC-NO: 2000-654984

DERWENT-WEEK: 200063

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TITLE: Geometric figure identification method for computer based symbol recognition, involves selecting patterns relevant to identified distortion

compensated pixels and matching with geometric figures

INVENTOR: LIU, L

PATENT-ASSIGNEE: INTERMEC IP CORP (INTEN)

PRIORITY-DATA: 1997US-0814001 (March 10, 1997)

Search ALL Search Selected

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 6097839 A

August 1, 2000

018

G06K007/10

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

US 6097839A

March 10, 1997

1997US-0814001

INT-CL (IPC): $\underline{G06} \times \frac{7}{10}$; $\underline{G06} \times \frac{9}{00}$

ABSTRACTED-PUB-NO: US 6097839A

BASIC-ABSTRACT:

NOVELTY - A group of pixels for identifying the image shape are produced, after performing distortion compensation subroutines. The pixels representing geometric figures with patterns are selected. The patterns with lines and curves having width independent of measured figure is identified. The identified figure is matched with patterns, to extract symbol.

DETAILED DESCRIPTION - Specific pixels in the input symbol image are located and pixels along the edges of geometric figure is identified. Based on the identification, a group of selection pixels are produced. The distortion in pixels is compensated, using distortion compensation sub-routine. The gradient vector of specific pixel is determined and is compared with standard vector. Based on the comparison, pixels are selected and accordingly the figure is identified.

USE - For computer based symbol recognition using laser barcode reader.

ADVANTAGE - Enables locating the target geometric pattern in the images precisely

Record Display Form Page 2 of 2

irrespective of damage of label image by providing distortion compensation. Reduces processing time, as less number of distortion compensation sub-routines are utilized.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart representing the geometric figure identification routine.

ABSTRACTED-PUB-NO: US 6097839A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.12/12

DERWENT-CLASS: T01 T04

EPI-CODES: T01-C06; T01-J10B2; T04-A03B1;

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L2: Entry 1 of 1

File: DWPI

Jul 23, 2002

DERWENT-ACC-NO: 2002-672976

DERWENT-WEEK: 200272

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TITLE: Graphical object rendering method involves extending color borders

associated at edges of rendered image

INVENTOR: BILODEAU, W D; GEORGE, P; LAZARONY, D R

PATENT-ASSIGNEE: ADOBE SYSTEMS INC (ADOBN)

PRIORITY-DATA: 1998US-0072503 (May 4, 1998), 1998US-0056894 (April 6, 1998)

Search Selected Search ALL Clear

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 6424430 B1

July 23, 2002

015

G06F015/00

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

US 6424430B1

April 6, 1998

1998US-0056894

CIP of

US 6424430B1

May 4, 1998

1998US-0072503

INT-CL (IPC): G06 F 15/00; G06 K 1/00

ABSTRACTED-PUB-NO: US 6424430B

BASIC-ABSTRACT:

NOVELTY - A silhouette of graphical object is determined from its rendered image in a raster buffer. The color borders associated at the edges of the image are extended and the color border in the buffer is converted. The raster image is then clipped based on the silhouette, resampled and rendered to a display device.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for graphical object rendering program.

USE - For rendering graphical objects on graphical rendering devices such as video monitor, printer, e.g. PostScript printer.

ADVANTAGE - By extending the color borders associated at the edges of the image, the ringing artifacts and clipping errors are eliminated and thus a high quality output is obtained. Since the clipping path is not determined based on the specification of the graphical object, complex graphical objects can be handled.

Record Display Form Page 2 of 2

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart for rendering a clipped image on a display device.

ABSTRACTED-PUB-NO: US 6424430B

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/9

DERWENT-CLASS: T01 T04

EPI-CODES: T01-J10B3B; T01-J10C4; T01-S03; T04-D03;

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L3: Entry 4 of 4

File: DWPI

Mar 20, 1990

DERWENT-ACC-NO: 1990-132012

DERWENT-WEEK: 199017

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TITLE: Intensity edge path detection method - determining gradient magnitude and image direction in node point array using gaussian weighted gradient operator

INVENTOR: EICHEL, P H

PATENT-ASSIGNEE: EICHEL P H (EICHI)

PRIORITY-DATA: 1985US-0782227 (September 30, 1985)

Search Selected Search ALL Clear

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 4910786 A

March 20, 1990

000

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

US 4910786A

September 30, 1985

1985US-0782227

INT-CL (IPC): G06K 9/48

ABSTRACTED-PUB-NO: US 4910786A

BASIC-ABSTRACT:

The intensity edge paths detection method includes an initial step of determining the gradient magnitude and direction of the image in an array or lattice of node points using a Gaussian weighted gradient operator. A root node having a high probability of being on an edge path is then selected by selecting a node having a high gradient magnitude.

The metric for each adjacent node to the root node is then calculated. The various metrics are stored for each such adjacent node. Using the adjacent node having the highest metric, the metrics for other nodes adjacent thereto are calculated. These steps are repeated and the edge path having the highest metric is thereby determined.

USE - For image produced by technique which is selected from group consisting of X-ray, CAT scan, nuclear magnetic resonance, photographic, video recording, and photodetection techniques.

ABSTRACTED-PUB-NO: US 4910786A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/3

DERWENT-CLASS: T04 EPI-CODES: T04-D03;

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Generate Collection Print

L3: Entry 2 of 4

File: DWPI Apr 2, 1992

016

G06K009/48

DERWENT-ACC-NO: 1992-132307

DERWENT-WEEK: 199216

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TITLE: Generation of video binary signal for video image - detects minimum and

maximum grey scale pixels to produce grey scale threshold

INVENTOR: HOLT, K C

PATENT-ASSIGNEE: TEKNEKRON COMMUNICATIONS SYST (TEKNN), TEKNEKRON COMMUNIC (TEKNN)

PRIORITY-DATA: 1990US-0583444 (September 17, 1990)

	Search Selected	Search ALL	Clear
PATENT-FAMILY:			
PHR-NO	PIIR-DATE	T.ANGIIAGE	PAGES

February 23, 1993

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9205518 A	April 2, 1992	E	036	
AU 9187124 A	April 15, 1992		000	G06K009/48

DESIGNATED-STATES: AU CA JP KR AT BE CH DE DK ES FR GB GR IT LU NL SE

CITED-DOCUMENTS:US 4501016; US 4550435 ; US 4688175 ; US 4910786 ; US 4969202

APPLICATION-DATA:

US 5189710 A

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9205518A	September 16, 1991	1991WO-US06688	
AU 9187124A	September 16, 1991	1991AU-0087124	
AU 9187124A	September 16, 1991	1991WO-US06688	
AU 9187124A		WO 9205518	Based on
US 5189710A	September 17, 1990	1990US-0583444	

INT-CL (IPC): G06K 9/48

ABSTRACTED-PUB-NO: WO 9205518A

BASIC-ABSTRACT:

A discrimination threshold is dynamically set by receiving a number of pixels and determining the grey value of the pixel which has the maximum grey value. The maximum grey value is stored in memory. The grey value of the pixel having the minimum grey value is determined and that value is also stored in memory.

A grey scale threshold is determined, based on the minimum and maximum grey value stored in memory. Each pixel of the image is then compared with the grey scale threshold to produce a first binary output for each pixel.

USE/ADVANTAGE - Processing of an image which is composed of a matrix of pixels. Does not require an extensive amount of computation.

ABSTRACTED-PUB-NO: US 5189710A EQUIVALENT-ABSTRACTS:

The appts. dynamically sets a discrimination threshold for the processing of an image. The image is composed of a matrix of pixels, each pixel having a grey scale value. The pixels are arranged in lines. The pixels are supplied to a line buffers memory from the latter, the white peak line and the black min. line are supplied to a peak and min. detectors. The white peak value and the black min. values are stored. The stored values are supplied to a threshold calculator to which a user selectable input is also supplied.

The output of the calculator is a threshold level which is used by comparator. Another input to the comparator is the grey scale value of the pixel from the image. The output of the comparator is a binary video signal.

ADVANTAGE - Reduced amt. of computation required.

CHOSEN-DRAWING: Dwg.2/6 Dwg.1/6

DERWENT-CLASS: T01 W04

EPI-CODES: T01-J10B; W04-N05C;

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L3: Entry 3 of 4 File: DWPI Mar 4, 1992

DERWENT-ACC-NO: 1992-073941

DERWENT-WEEK: 199210

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TITLE: Real-time edge detectioon for shape recognition in image analysis - using maxima in grey levels in region of pixel to locate edges, and comparison with

standard pixel patterns to identify edge

INVENTOR: DUFOUR, J; LE GALL, S; WALDBURGER, H; DUFOUR, JY; GALL, S

PATENT-ASSIGNEE: THOMSON TRT DEFENSE (CSFC), THOMSON-TRT DEFENSE (CSFC)

PRIORITY-DATA: 1990FR-0009742 (July 31, 1990)

		Search Selected	Search ALL	Clear	
PATE	ENT-FAMILY:				
	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
	EP 473476 A	March 4, 1992		000	
	AU 642280 B	October 14, 1993		000	G06F015/70
	<u>AU 9181499 A</u>	February 6, 1992		000	
	CA 2047811 A	February 1, 1992		000	
	FR 2665597 A	February 7, 1992		000 .	
	IL 98842 A	January 25, 1994		000	G06F015/68
	<u>US 5233670 A</u>	August 3, 1993		013	G06K009/48

DESIGNATED-STATES: BE DE GB IT NL SE

CITED-DOCUMENTS: EP 229543; EP 279297; US 4910786; WO 8703118

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 473476A	July 30, 1991	1991EP-0402126	
AU 642280B	July 30, 1991	1991AU-0081499	
AU 642280B		AU 9181499	
FR 2665597A	July 31, 1990	1990FR-0009742	
IL 98842A	July 15, 1991	1991IL-0098842	
US 5233670A	July 22, 1991	1991US-0733807	

INT-CL (IPC): G06F 15/68; G06F 15/70; G06K 9/46; G06K 9/48; G09G 5/00; H04N 5/14

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ABSTRACTED-PUB-NO: EP 473476A

BASIC-ABSTRACT:

The image analysis approximates, for each pixel, the gradient of the distribution of grey levels in the region of this pixel. A discriminator (30) extracts from among a pixel group a sub-group of pixels that corresp. to a local max. based on the distribution of grey levels.

A comparator compares the grey level maxima in the region about a pixel with a series of standard configurations to identify rectilinear contours.

USE/ADVANTAGE - Real-time identification of edges in digitised image data, for identification of ground features to aid aircraft navigation.

ABSTRACTED-PUB-NO: US 5233670A

EQUIVALENT-ABSTRACTS:

The method comprises the steps of: approximating for each pixel the gradient of the gray level function of the image at the position of each pixel, said gradient being defined by an argument, representing an element of direction information, and by a norm, representing an element of amplitude information of the transition of the gray level in said direction, extracting from among all of said pixels a sub-set of contour pixels, where each contour pixel corresponds to a local maximum of the gray level function in the direction of the gradient, the maximum being determined from said amplitude information, complementing the sub-set of contour pixels by interposed filler pixels if a discontinuity of the corresponding contour exists in a given neighbourhood, and performing for each contour pixel or filler pixel a comparison between the neighbourhood of the contour or filler pixel with a series of characteristic pixel configurations, and designating the corresponding pixel as being a rectilinear contour pixel if the comparison determines a correspondence of the neighbourhood of the pixel with one of the characteristic configurations.

USE/ADVANTAGE - For localising rectilinear contours in digitised image, e.g. for localising roads, bridges, railways, canals etc. stereo-vision applications. Wider scope of application.

CHOSEN-DRAWING: Dwg.6/7 Dwg.1/7

DERWENT-CLASS: P85 T01 T04 W06

EPI-CODES: T01-J10B2; T04-D03B; W06-B01B1;